

sub D' - 13. A method for analyzing macromolecules, said method comprising electrokinetically collecting macromolecules on a membrane in a microchannel, and thereafter analyzing the macromolecules collected. --

-- 14. The method according to claim 13, wherein the macromolecules are selected from nucleic acids, viruses, proteins, bacteria or fungi. --

4B 1 -- 15. The method according to claim 13, which further comprises derivatizing the macromolecules on said membrane. --

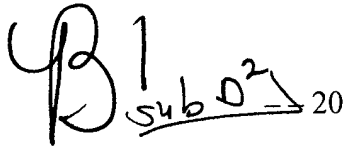
-- 16. The method according to claim 13, which further comprises subjecting the macromolecules to MS, gel electrophoresis, PCR, TEM, nucleic acid sequencing, immunodiagnosis or hybridization. --

-- 17. The method according to claim 13, wherein the macromolecules are nucleic acids, and the method comprises electrokinetically collecting the nucleic acids on said membrane in said microchannel, and thereafter analyzing the nucleic acids collected without amplifying the nucleic acids. --

Sub C' -- 18. A device adapted to perform the method of claim 13, said device being in

the form of a chip module, said device comprising 1-400 capillaries with embedded membrane, wherein if the device comprises multiple capillaries, the multiple capillaries are arranged side by side. --

-- 19. The device according to claim 18, which comprises a membrane comprised of a material selected from polyethersulphone (PES), polyester, fabric-supported acrylic polymer, polytetrafluoroethylene (PTFE), polysulphone, polypropylene (PP), glass fiber, nylon or polycarbonate. --

 20. A method for analyzing macromolecules, said method comprising providing a device according to claim 18, electrokinetically collecting macromolecules on a membrane of said device in a capillary of said device, and thereafter analyzing the macromolecules collected. --

-- 21. The method according to claim 20, which further comprises analyzing the macromolecules as part of a direct infection diagnosis. --

-- 22. The method according to claim 20, which further comprises analyzing the macromolecules as part of a quality control program. --

-- 23. The method according to claim 20, wherein the macromolecules are

nucleic acids, and the method comprises electrokinetically collecting the nucleic acids on said membrane in said capillary, and thereafter analyzing the nucleic acids collected without amplifying the nucleic acids. --

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C2 -- 24. A device adapted to perform the method of claim 13, said device comprising a channel adapted to analyze salt-containing samples with embedded membrane. --

sub D³ 25. A method for analyzing macromolecules, said method comprising providing a device according to claim 24, electrokinetically collecting macromolecules on a membrane of said device in said channel of said device, and thereafter analyzing the macromolecules collected. --

UPB -- 26. The method according to claim 25, which further comprises analyzing the macromolecules as part of a direct infection diagnosis. --

-- 27. The method according to claim 25, which further comprises analyzing the macromolecules as part of a quality control program. --

-- 28. The method according to claim 25, wherein the macromolecules are nucleic acids, and the method comprises electrokinetically collecting the nucleic acids on said membrane in said channel, and thereafter analyzing the nucleic acids collected without